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HDP/SB/21 based on PTO/SB/21 (08-00)

2834

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

|                        |                  |
|------------------------|------------------|
| Application Number     | 09/836,517       |
| Filing Date            | 4/17/01          |
| First Named Inventor   | Hung T. Du       |
| Group Art Unit         | 2834             |
| Examiner Name          | Thanh Lam        |
| Attorney Docket Number | 0275Y-000431/CPA |

### ENCLOSURES (check all that apply)

- Fee Transmittal Form
- Fee Attached
- Amendment / Response
- After Final
- Affidavits/declaration(s)
- Extension of Time Request
- Express Abandonment Request
- Information Disclosure Statement
- Certified Copy of Priority Document(s)
- Response to Missing Parts/ Incomplete Application
- Response to Missing Parts under 37 CFR 1.52 or 1.53

- Assignment Papers (for an Application)
- Drawing(s)
- Licensing-related Papers
- Petition
- Petition to Convert to a Provisional Application
- Power of Attorney, Revocation Change of Correspondence Address
- Terminal Disclaimer
- Request for Refund
- CD, Number of CD(s) \_\_\_\_\_

- After Allowance Communication to Group
- Appeal Communication to Board of Appeals and Interferences
- Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- Proprietary Information
- Status Letter
- Other Enclosure(s) (please identify below):

Supplemental Information Disclosure Statement; Form 1449 (citing 96 US and 52 Foreign); and return postcard.

Remarks

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |                                  |  |                                       |                    |
|-------------------------|----------------------------------|--|---------------------------------------|--------------------|
| Firm or Individual name | Harness, Dickey & Pierce, P.L.C. |  | Attorney Name<br>Roland A. Fuller III | Reg. No.<br>31,160 |
| Signature               |                                  |  |                                       |                    |
| Date                    | Aug. 30, 2002                    |  |                                       |                    |

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| Typed or printed name | Jennifer Yapo |      |         |
| Signature             |               | Date | 8/30/02 |



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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT** (\$ 180)

## Complete if Known

|                      |                  |
|----------------------|------------------|
| Application Number   | 09/826,517       |
| Filing Date          | 4/17/01          |
| First Named Inventor | Hung T. Du       |
| Examiner Name        | Thanh Lam        |
| Group / Art Unit     | 2834             |
| Attorney Docket No.  | 0275Y-000431/CPA |

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| METHOD OF PAYMENT (check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                            |          | FEE CALCULATION (continued)                                                                                                                                                                                                                                                                                                              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| <input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                                                            |          | <b>3. ADDITIONAL FEES</b> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>460</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td></td></tr> <tr><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>740</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>740</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>740</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="4">Other fee (specify) _____</td></tr> <tr> <td colspan="4">*Reduced by Basic Filing Fee Paid</td> <td colspan="2"><b>SUBTOTAL (3)</b></td> <td>\$ 180</td> </tr> </tbody> </table> |                       |                 |          | Large Entity Fee Code | Small Entity Fee Code | Fee Description    | Fee Paid | 105 | 130                                                                                                                                                                                                                                                                  | Surcharge - late filing fee or oath |  | 127 | 50           | Surcharge - late provisional filing fee or cover sheet. |          | 139    | 130 | Non-English specification |       | 147 | 2,520 | For filing a request for reexamination |  | 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920* | Requesting publication of SIR prior to Examiner action |  | 113                   | 1,840*                | Requesting publication of SIR after Examiner action |          | 115 | 110 | Extension for reply within first month |  | 116 | 400 | Extension for reply within second month |  | 117 | 920 | Extension for reply within third month |  | 118 | 1,440 | Extension for reply within fourth month |  | 128 | 1,960 | Extension for reply within fifth month |  | 119 | 320 | Notice of Appeal |  | 120 | 320 | Filing a brief in support of an appeal |  | 121 | 280 | Request for oral hearing |  | 138 | 1,510 | Petition to institute a public use proceeding |  | 140 | 110 | Petition to revive – unavoidable |  | 141 | 1,280 | Petition to revive – unintentional |  | 142 | 1,280 | Utility issue fee (or reissue) |  | 143 | 460 | Design issue fee |  | 144 | 620 | Plant issue fee |  | 122 | 130 | Petitions to the Commissioner |  | 123 | 50 | Processing fee under 37 CFR 1.17 (q) |  | 126 | 180 | Submission of Information Disclosure Stmt |  | 581 | 40 | Recording each patent assignment per property (times number of properties) |  | 146 | 740 | Filing a submission after final rejection (37 CFR § 1.129(a)) |  | 149 | 740 | For each additional invention to be examined (37 CFR § 1.129(b)) |  | 179 | 740 | Request for Continued Examination (RCE) |  | 169 | 900 | Request for expedited examination of a design application |  | Other fee (specify) _____ |  |  |  | *Reduced by Basic Filing Fee Paid |  |  |  | <b>SUBTOTAL (3)</b> |  | \$ 180 |
| Large Entity Fee Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Small Entity Fee Code | Fee Description                                                            | Fee Paid |                                                                                                                                                                                                                                                                                                                                          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| 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Surcharge - late filing fee or oath                                        |          |                                                                                                                                                                                                                                                                                                                                          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| 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50                    | Surcharge - late provisional filing fee or cover sheet.                    |          |                                                                                                                                                                                                                                                                                                                                          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| 139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Non-English specification                                                  |          |                                                                                                                                                                                                                                                                                                                                          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| 147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,520                 | For filing a request for reexamination                                     |          |                                                                                                                                                                                                                                                                                                                                          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| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920*                  | Requesting publication of SIR prior to Examiner action                     |          |                                                                                                                                                                                                                                                                                                                                          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| 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,840*                | Requesting publication of SIR after Examiner action                        |          |                                                                                                                                                                                                                                                                                                                                          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| 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110                   | Extension for reply within first month                                     |          |                                                                                                                                                                                                                                                                                                                                          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| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 400                   | Extension for reply within second month                                    |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920                   | Extension for reply within third month                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,440                 | Extension for reply within fourth month                                    |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,960                 | Extension for reply within fifth month                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320                   | Notice of Appeal                                                           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320                   | Filing a brief in support of an appeal                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 280                   | Request for oral hearing                                                   |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,510                 | Petition to institute a public use proceeding                              |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110                   | Petition to revive – unavoidable                                           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,280                 | Petition to revive – unintentional                                         |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,280                 | Utility issue fee (or reissue)                                             |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 460                   | Design issue fee                                                           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 620                   | Plant issue fee                                                            |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Petitions to the Commissioner                                              |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50                    | Processing fee under 37 CFR 1.17 (q)                                       |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180                   | Submission of Information Disclosure Stmt                                  |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 581                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40                    | Recording each patent assignment per property (times number of properties) |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |                                                                                                                                                                                                                                                                                                                                          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| 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | For each additional invention to be examined (37 CFR § 1.129(b))           |          |                                                                                                                                                                                                                                                                                                                                          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| 179                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Request for Continued Examination (RCE)                                    |          |                                                                                                                                                                                                                                                                                                                                          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| 169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 900                   | Request for expedited examination of a design application                  |          |                                                                                                                                                                                                                                                                                                                                          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| *Reduced by Basic Filing Fee Paid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                                                                            |          | <b>SUBTOTAL (3)</b>                                                                                                                                                                                                                                                                                                                      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| <input checked="" type="checkbox"/> Deposit Account:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                                                                            |          | <b>FEE CALCULATION (continued)</b>                                                                                                                                                                                                                                                                                                       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| Deposit Account Number: 02-2548<br><br>Deposit Account Name: Black & Decker (U.S.) Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                                                                            |          | <b>3. ADDITIONAL FEES</b> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>460</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td></td></tr> <tr><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>740</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>740</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>740</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> </tbody> </table>                                                                                                                                                                                    |                       |                 |          | Large Entity Fee Code | Small Entity Fee Code | Fee Description    | Fee Paid | 105 | 130                                                                                                                                                                                                                                                                  | Surcharge - late filing fee or oath |  | 127 | 50           | Surcharge - late provisional filing fee or cover sheet. |          | 139    | 130 | Non-English specification |       | 147 | 2,520 | For filing a request for reexamination |  | 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920* | Requesting publication of SIR prior to Examiner action |  | 113                   | 1,840*                | Requesting publication of SIR after Examiner action |          | 115 | 110 | Extension for reply within first month |  | 116 | 400 | Extension for reply within second month |  | 117 | 920 | Extension for reply within third month |  | 118 | 1,440 | Extension for reply within fourth month |  | 128 | 1,960 | Extension for reply within fifth month |  | 119 | 320 | Notice of Appeal |  | 120 | 320 | Filing a brief in support of an appeal |  | 121 | 280 | Request for oral hearing |  | 138 | 1,510 | Petition to institute a public use proceeding |  | 140 | 110 | Petition to revive – unavoidable |  | 141 | 1,280 | Petition to revive – unintentional |  | 142 | 1,280 | Utility issue fee (or reissue) |  | 143 | 460 | Design issue fee |  | 144 | 620 | Plant issue fee |  | 122 | 130 | Petitions to the Commissioner |  | 123 | 50 | Processing fee under 37 CFR 1.17 (q) |  | 126 | 180 | Submission of Information Disclosure Stmt |  | 581 | 40 | Recording each patent assignment per property (times number of properties) |  | 146 | 740 | Filing a submission after final rejection (37 CFR § 1.129(a)) |  | 149 | 740 | For each additional invention to be examined (37 CFR § 1.129(b)) |  | 179 | 740 | Request for Continued Examination (RCE) |  | 169 | 900 | Request for expedited examination of a design application |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| Large Entity Fee Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Small Entity Fee Code | Fee Description                                                            | Fee Paid |                                                                                                                                                                                                                                                                                                                                          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| 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Surcharge - late filing fee or oath                                        |          |                                                                                                                                                                                                                                                                                                                                          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| 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50                    | Surcharge - late provisional filing fee or cover sheet.                    |          |                                                                                                                                                                                                                                                                                                                                          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| 139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Non-English specification                                                  |          |                                                                                                                                                                                                                                                                                                                                          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| 147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,520                 | For filing a request for reexamination                                     |          |                                                                                                                                                                                                                                                                                                                                          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| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920*                  | Requesting publication of SIR prior to Examiner action                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,840*                | Requesting publication of SIR after Examiner action                        |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110                   | Extension for reply within first month                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 400                   | Extension for reply within second month                                    |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920                   | Extension for reply within third month                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,440                 | Extension for reply within fourth month                                    |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,960                 | Extension for reply within fifth month                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320                   | Notice of Appeal                                                           |          |                                                                                                                                                                                                                                                                                                                                          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| 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320                   | Filing a brief in support of an appeal                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 280                   | Request for oral hearing                                                   |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,510                 | Petition to institute a public use proceeding                              |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110                   | Petition to revive – unavoidable                                           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,280                 | Petition to revive – unintentional                                         |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,280                 | Utility issue fee (or reissue)                                             |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 460                   | Design issue fee                                                           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 620                   | Plant issue fee                                                            |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Petitions to the Commissioner                                              |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50                    | Processing fee under 37 CFR 1.17 (q)                                       |          |                                                                                                                                                                                                                                                                                                                                          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| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180                   | Submission of Information Disclosure Stmt                                  |          |                                                                                                                                                                                                                                                                                                                                          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| 581                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40                    | Recording each patent assignment per property (times number of properties) |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | For each additional invention to be examined (37 CFR § 1.129(b))           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 179                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Request for Continued Examination (RCE)                                    |          |                                                                                                                                                                                                                                                                                                                                          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| 169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 900                   | Request for expedited examination of a design application                  |          |                                                                                                                                                                                                                                                                                                                                          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| The Commissioner is authorized to: (check all that apply)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                            |          | <b>FEE CALCULATION (continued)</b>                                                                                                                                                                                                                                                                                                       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| <input checked="" type="checkbox"/> Charge fee(s) indicated below <input type="checkbox"/> Credit any overpayments<br><input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application<br><input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.                                                                                                                                                                                                                |                       |                                                                            |          | <b>3. ADDITIONAL FEES</b> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>Petition to revive – unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>Petition to revive – unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>460</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td></td></tr> <tr><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>740</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>740</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>740</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> </tbody> </table>                                                                                                                                                                                    |                       |                 |          | Large Entity Fee Code | Small Entity Fee Code | Fee Description    | Fee Paid | 105 | 130                                                                                                                                                                                                                                                                  | Surcharge - late filing fee or oath |  | 127 | 50           | Surcharge - late provisional filing fee or cover sheet. |          | 139    | 130 | Non-English specification |       | 147 | 2,520 | For filing a request for reexamination |  | 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920* | Requesting publication of SIR prior to Examiner action |  | 113                   | 1,840*                | Requesting publication of SIR after Examiner action |          | 115 | 110 | Extension for reply within first month |  | 116 | 400 | Extension for reply within second month |  | 117 | 920 | Extension for reply within third month |  | 118 | 1,440 | Extension for reply within fourth month |  | 128 | 1,960 | Extension for reply within fifth month |  | 119 | 320 | Notice of Appeal |  | 120 | 320 | Filing a brief in support of an appeal |  | 121 | 280 | Request for oral hearing |  | 138 | 1,510 | Petition to institute a public use proceeding |  | 140 | 110 | Petition to revive – unavoidable |  | 141 | 1,280 | Petition to revive – unintentional |  | 142 | 1,280 | Utility issue fee (or reissue) |  | 143 | 460 | Design issue fee |  | 144 | 620 | Plant issue fee |  | 122 | 130 | Petitions to the Commissioner |  | 123 | 50 | Processing fee under 37 CFR 1.17 (q) |  | 126 | 180 | Submission of Information Disclosure Stmt |  | 581 | 40 | Recording each patent assignment per property (times number of properties) |  | 146 | 740 | Filing a submission after final rejection (37 CFR § 1.129(a)) |  | 149 | 740 | For each additional invention to be examined (37 CFR § 1.129(b)) |  | 179 | 740 | Request for Continued Examination (RCE) |  | 169 | 900 | Request for expedited examination of a design application |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| Large Entity Fee Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Small Entity Fee Code | Fee Description                                                            | Fee Paid |                                                                                                                                                                                                                                                                                                                                          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| 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Surcharge - late filing fee or oath                                        |          |                                                                                                                                                                                                                                                                                                                                          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| 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50                    | Surcharge - late provisional filing fee or cover sheet.                    |          |                                                                                                                                                                                                                                                                                                                                          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| 139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Non-English specification                                                  |          |                                                                                                                                                                                                                                                                                                                                          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| 147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2,520                 | For filing a request for reexamination                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920*                  | Requesting publication of SIR prior to Examiner action                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,840*                | Requesting publication of SIR after Examiner action                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110                   | Extension for reply within first month                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 400                   | Extension for reply within second month                                    |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 920                   | Extension for reply within third month                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,440                 | Extension for reply within fourth month                                    |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,960                 | Extension for reply within fifth month                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320                   | Notice of Appeal                                                           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 320                   | Filing a brief in support of an appeal                                     |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 280                   | Request for oral hearing                                                   |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,510                 | Petition to institute a public use proceeding                              |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 110                   | Petition to revive – unavoidable                                           |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,280                 | Petition to revive – unintentional                                         |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,280                 | Utility issue fee (or reissue)                                             |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 460                   | Design issue fee                                                           |          |                                                                                                                                                                                                                                                                                                                                          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| 144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 620                   | Plant issue fee                                                            |          |                                                                                                                                                                                                                                                                                                                                          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| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130                   | Petitions to the Commissioner                                              |          |                                                                                                                                                                                                                                                                                                                                          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| 123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50                    | Processing fee under 37 CFR 1.17 (q)                                       |          |                                                                                                                                                                                                                                                                                                                                          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| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180                   | Submission of Information Disclosure Stmt                                  |          |                                                                                                                                                                                                                                                                                                                                          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| 581                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 40                    | Recording each patent assignment per property (times number of properties) |          |                                                                                                                                                                                                                                                                                                                                          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| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |                                                                                                                                                                                                                                                                                                                                          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| 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | For each additional invention to be examined (37 CFR § 1.129(b))           |          |                                                                                                                                                                                                                                                                                                                                          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| 179                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Request for Continued Examination (RCE)                                    |          |                                                                                                                                                                                                                                                                                                                                          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| 169                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 900                   | Request for expedited examination of a design application                  |          |                                                                                                                                                                                                                                                                                                                                          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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| Total Claims: -20 ** = 0 X 0 = 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                            |          | <b>FEE CALCULATION (continued)</b>                                                                                                                                                                                                                                                                                                       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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| Independent Claims: -3 ** = 0 X 0 = 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                                                            |          | <b>FEE CALCULATION (continued)</b>                                                                                                                                                                                                                                                                                                       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BASIC FILING FEE</b> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>740</td><td>Utility filing fee</td><td></td></tr> <tr><td>106</td><td>330</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>510</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>740</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>160</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table> |                       |                                                                            |          | Large Entity Fee Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Small Entity Fee Code | Fee Description | Fee Paid | 101                   | 740                   | Utility filing fee |          | 106 | 330                                                                                                                                                                                                                                                                  | Design filing fee                   |  | 107 | 510          | Plant filing fee                                        |          | 108    | 740 | Reissue filing fee        |       | 114 | 160   | Provisional filing fee                 |  | <b>1. BASIC FILING FEE</b> <table border="1"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>740</td><td>Utility filing fee</td><td></td></tr> <tr><td>106</td><td>330</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>510</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>740</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>160</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table> |      |                                                        |  | Large Entity Fee Code | Small Entity Fee Code | Fee Description                                     | Fee Paid | 101 | 740 | Utility filing fee                     |  | 106 | 330 | Design filing fee                       |  | 107 | 510 | Plant filing fee                       |  | 108 | 740   | Reissue filing fee                      |  | 114 | 160   | Provisional filing fee                 |  |     |     |                  |  |     |     |                                        |  |     |     |                          |  |     |       |                                               |  |     |     |                                  |  |     |       |                                    |  |     |       |                                |  |     |     |                  |  |     |     |                 |  |     |     |                               |  |     |    |                                      |  |     |     |                                           |  |     |    |                                                                            |  |     |     |                                                               |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
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| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Utility filing fee                                                         |          |                                                                                                                                                                                                                                                                                                                                          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| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 740                   | Reissue filing fee                                                         |          |                                                                                                                                                                                                                                                                                                                                          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| <b>SUBTOTAL (1)</b> (\$ 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                            |          | <b>SUBTOTAL (1)</b> (\$ 0)                                                                                                                                                                                                                                                                                                               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EXTRA CLAIM FEES</b> <table border="1"> <thead> <tr> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>-20 **</td><td>= 0</td><td>= 0</td></tr> <tr><td>-3 **</td><td>= 0</td><td>= 0</td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                        |                       |                                                                            |          | Extra Claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fee from below        | Fee Paid        | -20 **   | = 0                   | = 0                   | -3 **              | = 0      | = 0 | <b>2. 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                             |  |     |     |                                                                  |  |     |     |                                         |  |     |     |                                                           |  |                           |  |  |  |                                   |  |  |  |                     |  |        |
| Extra Claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fee from below        | Fee Paid                                                                   |          |                                                                                                                                                                                                                                                                                                                                          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| -20 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | = 0                   | = 0                                                                        |          |                                                                                                                                                                                                                                                                                                                                          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| -3 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | = 0                   | = 0                                                                        |          |                                                                                                                                                                                                                                                                                                                                          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| <b>SUBTOTAL (2)</b> (\$ 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                            |          | <b>SUBTOTAL (2)</b> (\$ 0)                                                                                                                                                                                                                                                                                                               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| *or number previously paid, if greater; For Reissues, see above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                                                                            |          | <b>SUBTOTAL (3)</b> (\$ 180)                                                                                                                                                                                                                                                                                                             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| SUBMITTED BY      |                      |                                  |        |           |              | Complete if applicable |               |
|-------------------|----------------------|----------------------------------|--------|-----------|--------------|------------------------|---------------|
| Name (Print/Type) | Roland A. Fuller III | Registration No. Attorney/Agent) | 31,160 | Telephone | 248-641-1600 |                        |               |
| Signature         |                      |                                  |        |           |              | Date                   | Aug. 30, 2002 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



#9  
9-18-02  
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U.S. PATENT AND TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/836,517

Filing Date: April 17, 2001

Applicant: Hung T. Du

Group Art Unit: 2834

Examiner: Thanh Lam

Title: ELECTRIC MOTOR HAVING ARMATURE COATED  
WITH A THERMALLY CONDUCTIVE PLASTIC

Attorney Docket: 0275Y-000431/CPA

Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. **COPIES**

A.  Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B.  Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C.  This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A.  Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B.  A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1.  See the attached foreign patent office communication from a counterpart foreign application:

2.  English translations are provided for: as indicated on Form 1449.

3.  Other: English translations of abstracts are provided for: as indicated on Form 1449.

Japanese Patent No. 53-98007, published on August 26, 1978. Varnish is impregnated into gaps between coils and a gap between coils and a magnet core and at the same time varnish is also put into a space formed between an upper die and lower die to be thermally hardened, resulting in vanes formed integrally and solidly on the end portion of the coil.

German Patent No. 1 805 369, was first published on October 16, 1969 and describes a method and an apparatus for generating an insulating cover on an electric winding. As shown in the embodiment, the armature winding of an electric motor is coated with a powder (3), which is heat hardening and may consist of a resin, e.g. an epoxy resin, and contains a hardening agent.

German Utility Model No. 1 844 364, published on January 4, 1962, describes an armature of an electric motor comprising a commutator. As shown in Figures 2, 4, and 6, a ring (19) is positioned between one end of the winding coils and the commutator wherein commutator segments (26) are pressed into recesses of the ring. The prepared armature is inserted into a mould (Figure 6) and plastic material is poured into the mould from the top end so that it flows through slots (25) formed between the armature shaft (10) and the ring (19) to fill

the mould up to the upper end. Thereby the plastic material also fills the axial slots between adjacent commutator segments.

Austrian Patent No. 240 485, which was published on May 25, 1965, describes cooling means for an electric machine. These means may be formed by ribs, e.g. tangential ribs, having additional surface roughness and being provided on the armature (9) and on the bearing plate (4). Thereby a rotating flow of cooling air shall be generated.

German Patent No. 873 272, was published on April 13, 1953 and describes a lamination stack for a stator of an electric machine. The stack is enclosed by plastic material applied by injection moulding. The plastic material forms axial ribs or projections (3, 4) whereas the corners of the lamination stack (2) are not covered by plastic material and act as cooling ribs or fins.

German Patent Application No. P 19 22 427.2, which was published on November 5, 1970, describes an immersion pump having a stator embedded in plastic material, which plastic material may contain embedded metallic cylinders which may be perforated or the like and which extend out of the plastic material to effect heat dissipation.

German Utility Model No. 77 08 518, published on July 28, 1977, describes a perpendicularly positioned electric motor having a motor housing (2) with cooling ribs or fins (1).

European Patent Application 78100755.4, published on April 4, 1979, describes an electric motor having a stator (1) with a laminated core (2) and windings (4), all enclosed by plastic material (8) which contains a filler to increase heat conductivity. The plastic material simultaneously forms the stator housing.

European Patent Application 92105190.0, published on October 7, 1992, describes an apparatus for manufacturing a laminated core for receiving an electric coil wherein injection moulding occurs prior to insertion of the coil.

C. X The following additional information is provided for the Examiner's consideration.

Applicants specifically draw the Examiner's attention to the following:

Translation of Japanese Publication No. 07-123642 (Japanese Patent Application No. 05-264811) (Japanese Patent Application submitted as Document No. 1 under Foreign Patent Documents in IDS filed July 30, 2001)

Translation of Japanese Publication No. 07-123618 (Japanese Patent Application No. 05-264812) (Japanese Patent Application submitted as Document No. 2 under Foreign Patent Documents in IDS filed July 30, 2001)

U.S. 1,642,057

U.S. 2,019,064

U.S. 2,820,914

U.S. 3,688,137

U.S. 4,983,866 (applied by the Examiner in the Official Action mailed August 14, 2002 & therefore not included in this IDS)

U.S. 5,490,319

U.S. 5,634,258

U.S. 5,727,307

U.S. 5,925,467

DE 31 15 713 A1 (Document No. 46 under Foreign Patent Documents - translation included)

While applicants believe that the above may be the most pertinent of the documents they have submitted, applicants do not represent that they have thoroughly studied each document submitted. Applicants invite the Examiner to make the Examiner's own independent assessment of the pertinence of the submitted documents.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A.  The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

| <u>Serial No.</u> | <u>Filing Date</u> | <u>Art Unit</u> |
|-------------------|--------------------|-----------------|
|-------------------|--------------------|-----------------|

V. THIS IDS IS BEING FILED UNDER

A.  37 C.F.R. § 1.97(b): (check only one box)

1.  within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2.  within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3.  before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4.  before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B.  37 C.F.R. § 1.97(c): (check only one box)

• before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1.  No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2.  See the certification below. No fee is required.

C.  37 C.F.R. § 1.97(d):

• after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1.  See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A.  each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

- B.  no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
- C.  Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A.  A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B.  Please charge Deposit Account No. 02-2548 as indicated on the enclosed Fee Transmittal.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 02-2548.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 02-2548.

Respectfully submitted,

Dated: Aug. 30, 2002

By: R.A. Fuller  
Roland A. Fuller  
Reg. No. 31,160

HARNESS, DICKEY & PIERCE, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

RAF/jy



SEP 03 2002

FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Sheet 1 of 8

|                     |            |
|---------------------|------------|
| ATTORNEY DOCKET NO. | SERIAL NO. |
| 0275Y-000431/CPA    | 09/836,517 |
| APPLICANT           |            |
| Hung T. Du          |            |
| FILING DATE         | GROUP      |
| April 17, 2001      | 2834       |

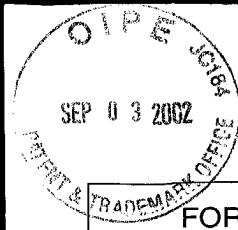
**U.S. PATENT DOCUMENTS**

| Ref. Desig. | Examiner's Initials | Document Number | Date       | Name                  | Class/Subclass | (If appropriate) Filing Date |
|-------------|---------------------|-----------------|------------|-----------------------|----------------|------------------------------|
| 1.          |                     | 2,019,064       | 10/29/1935 | V.G. Apple            |                |                              |
| 2.          |                     | 2,232,812       | 02/25/1941 | Clair W. Studer       |                |                              |
| 3.          |                     | 2,381,533       | 08/07/1945 | F.P. Forss            |                |                              |
| 4.          |                     | 2,618,757       | 11/18/1952 | T.R. Wieseman et al.  |                |                              |
| 5.          |                     | 2,683,233       | 07/06/1954 | F.L. Ruhl             |                |                              |
| 6.          |                     | 2,747,119       | 05/22/1956 | M.E. Petersen et al.  |                |                              |
| 7.          |                     | 2,820,914       | 01/21/1958 | H. Rudoff et al.      |                |                              |
| 8.          |                     | 2,822,483       | 02/04/1958 | M.V. De Jean et al.   |                |                              |
| 9.          |                     | 2,949,555       | 08/16/1960 | T.R. Paul             |                |                              |
| 10.         |                     | 2,997,776       | 08/29/1961 | R.C. Matter et al.    |                |                              |
| 11.         |                     | 3,151,262       | 09/29/1964 | C.F. Howard et al.    |                |                              |
| 12.         |                     | 3,182,383       | 05/11/1965 | J. Rosenberg et al.   |                |                              |
| 13.         |                     | 3,212,170       | 10/19/1965 | J.W. Marshall         |                |                              |
| 14.         |                     | 3,388,458       | 06/18/1968 | J.L. Logan            |                |                              |
| 15.         |                     | 3,407,491       | 10/29/1968 | C.L. Clevenger et al. |                |                              |
| 16.         |                     | 3,427,264       | 02/11/1969 | E.O. Forster et al.   |                |                              |
| 17.         |                     | 3,436,815       | 04/08/1969 | M.W. Sheets           |                |                              |
| 18.         |                     | 3,468,020       | 09/23/1969 | D.W. Carlson et al.   |                |                              |
| 19.         |                     | 3,588,560       | 06/28/1971 | Hans Akselsen         |                |                              |
| 20.         |                     | 3,618,929       | 11/09/1971 | Harold R. Upchurch    |                |                              |
| 21.         |                     | 3,688,137       | 08/29/1972 | Filhol                |                |                              |

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



|                                        |  |                     |            |
|----------------------------------------|--|---------------------|------------|
| FORM HDP-1449 (Based on Form PTO-1449) |  | ATTORNEY DOCKET NO. | SERIAL NO. |
|                                        |  | 0275Y-000431/CPA    | 09/836,517 |
|                                        |  | APPLICANT           |            |
|                                        |  | Hung T. Du          |            |
|                                        |  | FILING DATE         | GROUP      |
|                                        |  | April 17, 2001      | 2834       |
| Sheet 2 of 8                           |  |                     |            |

| U.S. PATENT DOCUMENTS |                     |                 |            |                        |                 |                              |
|-----------------------|---------------------|-----------------|------------|------------------------|-----------------|------------------------------|
| Ref. Desig.           | Examiner's Initials | Document Number | Date       | Name                   | Class/ Subclass | (If appropriate) Filing Date |
| 22.                   |                     | 3,758,799       | 09/11/1973 | Dochterman et al.      |                 |                              |
| 23.                   |                     | 3,813,294       | 05/28/1974 | C.H. Dyer et al.       |                 |                              |
| 24.                   |                     | 3,874,073       | 04/01/1975 | Dochterman et al.      |                 |                              |
| 25.                   |                     | 4,038,741       | 08/02/1977 | Schuler                |                 |                              |
| 26.                   |                     | 4,087,712       | 05/02/1978 | Mosimann et al.        |                 |                              |
| 27.                   |                     | 4,159,562       | 07/03/1979 | Liptak et al.          |                 |                              |
| 28.                   |                     | 4,219,748       | 08/26/1980 | Sakaguchi et al.       |                 |                              |
| 29.                   |                     | 4,235,656       | 11/25/1980 | Shimada et al.         |                 |                              |
| 30.                   |                     | 4,263,711       | 04/28/1981 | Sakano et al.          |                 |                              |
| 31.                   |                     | 4,341,972       | 07/27/1982 | Penn et al.            |                 |                              |
| 32.                   |                     | 4,349,760       | 09/14/1982 | Diepers                |                 |                              |
| 33.                   |                     | 4,387,311       | 06/07/1983 | Kobayashi et al.       |                 |                              |
| 34.                   |                     | 4,399,949       | 08/23/1983 | Penn et al.            |                 |                              |
| 35.                   |                     | 4,553,320       | 11/19/1985 | Bryant-Jeffries et al. |                 |                              |
| 36.                   |                     | 4,559,464       | 12/17/1985 | Stokes                 |                 |                              |
| 37.                   |                     | 4,560,893       | 12/24/1985 | van de Griend          |                 |                              |
| 38.                   |                     | 4,616,407       | 09/14/1986 | Tamaki et al.          |                 |                              |
| 39.                   |                     | 4,624,884       | 11/25/1986 | Harada et al.          |                 |                              |
| 40.                   |                     | 4,682,410       | 07/28/1987 | Kreuzer et al.         |                 |                              |
| 41.                   |                     | 4,782,254       | 11/01/1988 | Kreuzer et al.         |                 |                              |

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|                                        |  | 0275Y-000431/CPA    | 09/836,517 |
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| U.S. PATENT DOCUMENTS |                     |                 |            |                     |                |                              |
|-----------------------|---------------------|-----------------|------------|---------------------|----------------|------------------------------|
| Ref. Desig.           | Examiner's Initials | Document Number | Date       | Name                | Class/Subclass | (If appropriate) Filing Date |
| 42.                   |                     | 4,800,315       | 01/24/1989 | Schulz et al.       |                |                              |
| 43.                   |                     | 4,818,910       | 04/04/1989 | Reisenweber         |                |                              |
| 44.                   |                     | 4,823,032       | 04/18/1989 | Ward et al.         |                |                              |
| 45.                   |                     | 4,908,534       | 03/13/1990 | Gubler et al.       |                |                              |
| 46.                   |                     | 4,908,535       | 03/13/1990 | Kreuzer et al.      |                |                              |
| 47.                   |                     | 4,918,801       | 04/24/1990 | Schwarz et al.      |                |                              |
| 48.                   |                     | 4,922,604       | 05/08/1990 | Marshall et al.     |                |                              |
| 49.                   |                     | 4,963,776       | 10/16/1990 | Kitamura            |                |                              |
| 50.                   |                     | 5,003,212       | 03/26/1991 | Ibe et al.          |                |                              |
| 51.                   |                     | 5,095,612       | 03/17/1992 | McAvena             |                |                              |
| 52.                   |                     | 5,121,021       | 06/09/1992 | Ward                |                |                              |
| 53.                   |                     | 5,130,596       | 07/14/1992 | Umeki               |                |                              |
| 54.                   |                     | 5,233,249       | 08/03/1993 | Schaeflmeier et al. |                |                              |
| 55.                   |                     | 5,244,608       | 09/14/1993 | Andersen            |                |                              |
| 56.                   |                     | 5,268,607       | 12/07/1993 | McManus             |                |                              |
| 57.                   |                     | 5,313,698       | 05/24/1994 | Schaeflmeier et al. |                |                              |
| 58.                   |                     | 5,341,561       | 08/30/1994 | Schorm et al.       |                |                              |
| 59.                   |                     | 5,352,948       | 10/04/1994 | Kirn et al.         |                |                              |
| 60.                   |                     | 5,459,190       | 10/17/1995 | Nakamura et al.     |                |                              |
| 61.                   |                     | 5,477,092       | 12/19/1995 | Tarrant             |                |                              |

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|-------------|---------------------|-----------------|------------|-------------------|--------------------|---------------------------------|
| 62.         |                     | 5,490,319       | 02/13/1996 | Nakamura et al.   |                    |                                 |
| 63.         |                     | 5,567,284       | 10/22/1996 | Bauer et al.      |                    |                                 |
| 64.         |                     | 5,584,114       | 12/17/1996 | McManus           |                    |                                 |
| 65.         |                     | 5,606,791       | 03/04/1997 | Fougere et al.    |                    |                                 |
| 66.         |                     | 5,634,258       | 06/03/1997 | Onodera et al.    |                    |                                 |
| 67.         |                     | 5,668,428       | 09/16/1997 | Stojkovich et al. |                    |                                 |
| 68.         |                     | 5,714,827       | 02/03/1998 | Hansson           |                    |                                 |
| 69.         |                     | 5,715,590       | 02/10/1998 | Fougere et al.    |                    |                                 |
| 70.         |                     | 5,727,307       | 03/17/1998 | Gstohl et al.     |                    |                                 |
| 71.         |                     | 5,731,646       | 03/24/1998 | Heinze et al.     |                    |                                 |
| 72.         |                     | 5,731,651       | 03/24/1998 | Hyodo             |                    |                                 |
| 73.         |                     | 5,783,877       | 07/21/1998 | Chitayat          |                    |                                 |
| 74.         |                     | 5,783,888       | 07/21/1998 | Yamano            |                    |                                 |
| 75.         |                     | 5,806,169       | 09/15/1998 | Trago et al.      |                    |                                 |
| 76.         |                     | 5,821,654       | 10/13/1998 | Woo               |                    |                                 |
| 77.         |                     | 5,845,389       | 12/08/1998 | Roberts et al.    |                    |                                 |
| 78.         |                     | 5,911,685       | 06/15/1999 | Siess et al.      |                    |                                 |
| 79.         |                     | 5,921,913       | 07/13/1999 | Siess             |                    |                                 |
| 80.         |                     | 5,925,467       | 07/20/1999 | Strumpler et al.  |                    |                                 |
| 81.         |                     | 5,955,812       | 09/21/1999 | Warner            |                    |                                 |

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|-------------|---------------------|-----------------|------------|----------------|-----------------|------------------------------|
| 82.         |                     | 5,960,532       | 10/05/1999 | Hill           |                 |                              |
| 83.         |                     | 5,964,694       | 10/12/1999 | Siess et al.   |                 |                              |
| 84.         |                     | 5,982,056       | 11/09/1999 | Koyama et al.  |                 |                              |
| 85.         |                     | 5,998,905       | 12/07/1999 | Fougere et al. |                 |                              |
| 86.         |                     | 6,020,661       | 02/01/2000 | Trago et al.   |                 |                              |
| 87.         |                     | 6,057,626       | 05/02/2000 | Tanaka et al.  |                 |                              |
| 88.         |                     | 6,139,487       | 10/31/2000 | Siess          |                 |                              |
| 89.         |                     | 6,145,585       | 11/14/2000 | Wei            |                 |                              |
| 90.         |                     | 6,166,468       | 12/26/2000 | Suzuki et al.  |                 |                              |
| 91.         |                     | 6,173,915       | 01/16/2001 | Cohen et al.   |                 |                              |
| 92.         |                     | 6,268,678       | 07/31/2001 | Asao et al.    |                 |                              |
| 93.         |                     | 6,281,612       | 08/28/2001 | Asao et al.    |                 |                              |
| 94.         |                     | 6,317,963       | 11/20/2001 | Powers et al.  |                 |                              |
| 95.         |                     | 6,362,554       | 03/26/2002 | Neal           |                 |                              |
| 96.         |                     | 1,642,057       | 9/13/1927  | V.G. Apple     |                 |                              |

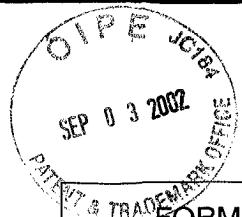
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| Ref. Desig. | Examiner's Initials | Document Number | Date       | Country | Class/ Subclass | Translation Yes | No |
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| 1.          |                     | PCT/DE96/01489  | 2/27/97    | PCT     |                 | Abstract        |    |
| 2.          |                     | JP 3-293943     | 12/25/1991 | Japan   |                 | Abstract        |    |

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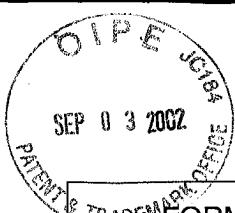
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|-------------|---------------------|-----------------|------------|---------|-----------------|-----------------|----|
| 3.          |                     | JP 61-269640    | 11/29/1986 | Japan   |                 | Abstract        |    |
| 4.          |                     | JP 3-265437     | 11/26/1991 | Japan   |                 | Abstract        |    |
| 5.          |                     | JP 5-199717     | 08/06/1993 | Japan   |                 | Abstract        |    |
| 6.          |                     | JP 5-199716     | 08/06/1993 | Japan   |                 | Abstract        |    |
| 7.          |                     | JP 2000-197295  | 12/07/2001 | Japan   |                 | Abstract        |    |
| 8.          |                     | JP 9-172748     | 06/30/1997 | Japan   |                 | Abstract        |    |
| 9.          |                     | JP 2001-169501  | 05/16/2001 | Japan   |                 | Abstract        |    |
| 10.         |                     | JP 10-166398    | 09/14/1999 | Japan   |                 | Abstract        |    |
| 11.         |                     | JP 7-123642     | 05/12/1995 | Japan   |                 | Abstract        |    |
| 12.         |                     | JP 7-123618     | 05/12/1995 | Japan   |                 | Abstract        |    |
| 13.         |                     | JP 1-123459     | 05/16/1989 | Japan   |                 | Abstract        |    |
| 14.         |                     | JP 4-121364     | 04/22/1992 | Japan   |                 | Abstract        |    |
| 15.         |                     | JP 53-98007     | 08/26/1978 | Japan   |                 |                 | X  |
| 16.         |                     | JP 7-75271      | 03/17/1995 | Japan   |                 | Abstract        |    |
| 17.         |                     | JP 2000-23432   | 1/21/2000  | Japan   |                 | Abstract        |    |
| 18.         |                     | DE 35 22 084    | 01/02/1987 | Germany |                 | Abstract        |    |
| 19.         |                     | DE 28 38 179    | 03/29/1979 | Germany |                 | Abstract        |    |
| 20.         |                     | DE 195 03 085   | 09/12/1996 | Germany |                 | Abstract        |    |
| 21.         |                     | DE 32 34 275    | 03/15/1984 | Germany |                 | Abstract        |    |
| 22.         |                     | DE 197 49 108   | 04/01/1999 | Germany |                 | Abstract        |    |

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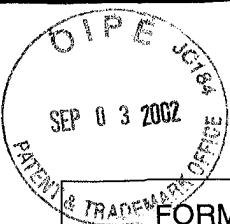
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|----------------|------------------------|--------------------|------------|---------|--------------------|----------------------------|
| 23.            |                        | DE 27 12 403       | 09/28/1978 | Germany |                    | Abstract                   |
| 24.            |                        | DE 42 41 404       | 06/16/1994 | Germany |                    | Abstract                   |
| 25.            |                        | DE 1 021 466       | 12/27/1957 | Germany |                    | Abstract                   |
| 26.            |                        | DE 197 01 307      | 07/23/1998 | Germany |                    | Abstract                   |
| 27.            |                        | DE 29 19 485       | 12/04/1980 | Germany |                    | Abstract                   |
| 28.            |                        | DE 35 28 492       | 02/12/1987 | Germany |                    | Abstract                   |
| 29.            |                        | DE 199 54 314      | 05/17/2001 | Germany |                    | Abstract                   |
| 30.            |                        | DE 1 488 502       | 05/14/1969 | Germany |                    | Abstract                   |
| 31.            |                        | DE 199 43 446      | 03/15/2001 | Germany |                    | Abstract                   |
| 32.            |                        | DE 31 15 713       | 11/04/1982 | Germany |                    | X                          |
| 33.            |                        | DE 198 54 642      | 06/15/2000 | Germany |                    | Abstract                   |
| 34.            |                        | DE 197 35 748      | 07/30/1998 | Germany |                    | Abstract                   |
| 35.            |                        | DE 199 02 837      | 08/10/2000 | Germany |                    | Abstract                   |
| 36.            |                        | DE 100 52 913      | 07/26/2001 | Germany |                    | Abstract                   |
| 37.            |                        | DE 199 05 869      | 10/26/2000 | Germany |                    | Abstract                   |
| 38.            |                        | DE 1 805 369       | 10/16/1969 | Germany |                    | X                          |
| 39.            |                        | DE 1 844 364       | 01/04/1962 | Germany |                    | X                          |
| 40.            |                        | EP 0 581 966       | 02/09/1994 | Europe  |                    | X                          |
| 41.            |                        | AU 240458          | 5/25/1965  | Austria |                    | X                          |
| 42.            |                        | EP 0 858 147       | 8/12/1998  | Europe  |                    | X                          |

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|----------------|------------------------|--------------------|------------|---------------|--------------------|--------------------|----|
| 43.            |                        | DE 873 272         | 04/13/1953 | Germany       |                    |                    | X  |
| 44.            |                        | DE 1 922 427       | 11/05/1970 | Germany       |                    |                    | X  |
| 45.            |                        | GB 2 202 170       | 9/21/1988  | Great Britain |                    | X                  |    |
| 46.            |                        | DE 31 15 713       | 11/04/1982 | Germany       |                    | X                  |    |
| 47.            |                        | DE 38 14 040       | 11/09/1989 | Germany       |                    | Abstract           |    |
| 48.            |                        | DE 38 33 574       | 04/05/1990 | Germany       |                    | Abstract           |    |
| 49.            |                        | DE 44 27 426       | 05/11/1995 | Germany       |                    | Abstract           |    |
| 50.            |                        | DE 77 08 518       | 7/28/1977  | Germany       |                    |                    | X  |
| 51.            |                        | EP 78100755.4      | 4/4/1979   | Europe        |                    |                    | X  |
| 52.            |                        | EP 92105190.0      | 10/7/1992  | Europe        |                    |                    | X  |

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